

NVIDIA AI Enterprise

Product Support Matrix

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Chapter 1. Product Support Matrix

Driver Package	Hypervisor or Bare-Metal OS	Software Product Deployment	Hardware Supported <u>1</u>	Guest OS Support
NVIDIA AI Enterprise 2.1	 VMware vSphere 6.7 	 NVIDIA vGPU GPU pass through 	NVIDIA V100NVIDIA T4	 Ubuntu 20.04 LTS Red Hat Enterprise Linux 8.4 Red Hat OpenShift 4.9 and later using Red Hat Linux CoreOS (RHCOS)
	 VMware vSphere Hypervisor (ESXi) Enterprise Plus Edition 7.0 Update 3 VMware vCenter Server 7.0 Update 3 VMware vSphere Hypervisor (ESXi) Enterprise Plus Edition 7.0 Update 2 VMware vCenter Server 7.0 Update 2 	 NVIDIA vGPU GPU pass through 	 NVIDIA A100X NVIDIA A100 PCIe 40GB NVIDIA A100 HGX 40GB NVIDIA A100 PCIe 80GB NVIDIA A100 HGX 80GB NVIDIA A100 HGX 80GB NVIDIA A100 HGX 80GB NVIDIA A100 NVIDIA A300 NVIDIA A300 NVIDIA A100 NVIDIA A100<td> Ubuntu 22.04 LTS Ubuntu 20.04 LTS Red Hat Enterprise Linux 9.0 Red Hat Enterprise Linux 8.4 Red Hat OpenShift 4.9 and later using Red Hat Linux CoreOS (RHCOS) </td>	 Ubuntu 22.04 LTS Ubuntu 20.04 LTS Red Hat Enterprise Linux 9.0 Red Hat Enterprise Linux 8.4 Red Hat OpenShift 4.9 and later using Red Hat Linux CoreOS (RHCOS)

Driver Package	Hypervisor or Bare-Metal OS	Software Product Deployment	Hardware Supported <u>1</u>	Guest OS Support
Driver Package	 Bare-Metal OS Ubuntu 22.04 LTS Ubuntu 20.04 LTS Red Hat Enterprise Linux 9.0 Red Hat Enterprise Linux 8.4 	 Deployment Bare metal 	 NVIDIA RTX A5000 NVIDIA T4 NVIDIA V100 NVIDIA A100X NVIDIA A100 PCIe 40GB NVIDIA A100 HGX 40GB NVIDIA A100 PCIe 80GB NVIDIA A100 HGX 80GB 	Support N/A
	 Red Hat OpenShift 4.9 and later using Red Hat Linux CoreOS (RHCOS) 		 NVIDIA A40 NVIDIA A30X NVIDIA A30 NVIDIA A10 NVIDIA A10 NVIDIA A16 NVIDIA A2 NVIDIA A2 NVIDIA RTX A6000 NVIDIA RTX A5500 NVIDIA RTX A5000 NVIDIA RTX A5000 NVIDIA T4 NVIDIA V100 	

Notes

¹ These GPUs are supported only with <u>NVIDIA AI Enterprise compatible</u> servers.

Chapter 2. NVIDIA AI Enterprise Supported Cloud Services

NVIDIA AI Enterprise is supported on several cloud services with bring-your-own-license (BYOL) licensing.

- Amazon Web Services Elastic Compute Cloud (AWS EC2)
- ▶ <u>Google Cloud Platform (GCP)</u>
- Microsoft Azure

2.1. Amazon Web Services Elastic Compute Cloud (AWS EC2)

GPU	Supported AWS EC2 Instances	Supported Guest Operating Systems
NVIDIA T4	g4dn.xlarge g4dn.2xlarge g4dn.4xlarge g4dn.8xlarge g4dn.12xlarge g4dn.16xlarge	Red Hat Enterprise Linux 8.4
NVIDIA V100	P3.2xlarge P3.8xlarge P3.16xlarge	Ubuntu 22.04 Ubuntu 20.04
NVIDIA A10G	g5.xlarge g5.2xlarge g5.4xlarge g5.8xlarge	

GPU	Supported AWS EC2 Instances	Supported Guest Operating Systems
	g5.12xlarge	
	g5.16xlarge	
	g5.24xlarge	
	g5.48xlarge	
NVIDIA A100	p4d.24xlarge	

2.2. Google Cloud Platform (GCP)

GPU	Supported GCP Instances	Supported Guest Operating Systems
Tesla T4	Any predefined machine type.	
Tesla V100	Any <u>custom machine type</u> that can be created in a zone.	
Tesla A100	a2-highgpu-1g a2-highgpu-2g a2-highgpu-4g a2-highgpu-8g a2-megagpu-16g	Red Hat Enterprise Linux 8.4 Ubuntu 22.04 Ubuntu 20.04

2.3. Microsoft Azure

GPU	Supported Azure Instances	Supported Guest Operating Systems
	NC6s_v3	
	NC12s_v3	
NVIDIA V100	NC24s_v3	
	NC24rs_v3	Red Hat Enterprise Linux 8.4
	ND40rs_v2	Ubuntu 22.04
	NC4asT4_v3	Ubuntu 20.04
	NC8asT4_v3	
NVIDIA T4	NC16asT4_v3	
	NC64asT4_v3	

GPU	Supported Azure Instances	Supported Guest Operating Systems
NVIDIA A100	ND96asr_v4	
INVIDIA ATOU	ND96amsr_A100_v4	
	NV6ads_A10_v5	
	NV12ads_A10_v5	
NVIDIA A10	NV18ads_A10_v5	
	NV36ads_A10_v5	
	NV36adms_A10_v5	
	NV72ads_A10_v5	

2.4. NVIDIA GPU Optimized VMI on CSP Marketplace

For ease of use in the cloud, NVIDIA will also provide compute optimized and validated base Virtual Machine Instances (VMI) through CSP marketplaces. The VMI includes key technologies and software from NVIDIA for rapid deployment, management, and scaling of AI workloads in the modern hybrid cloud.

The VMI will have the following software pre-installed:

- ▶ Ubuntu Server 20.04
- NVIDIA driver 470TRD 470.103.01
- Docker-ce 20.10.12
- NVIDIA Container Toolkit 1.8.1
- NVIDIA Container Runtime 3.8.1

Chapter 3. CPU Only Server Support

NVIDIA AI Enterprise supports deployments on CPU only servers that are part of the <u>NVIDIA</u> <u>Certfied Systems</u> list. Customers can deploy both GPU and CPU Only systems with VMware vSphere or Red Hat Enterprise Linux.

NVIDIA AI Enterprise will support the following CPU enabled frameworks:

- TensorFlow
- PyTorch
- ► Triton Inference Server with FIL backend
- ▶ NVIDIA RAPIDS with XGBoost and Dask

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